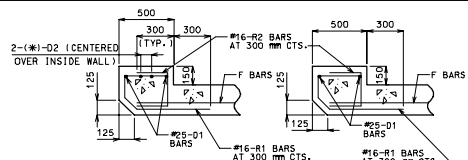
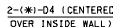




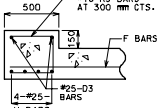
(LEFT ADVANCE SKEW SHOWN)
(RIGHT ADVANCE SKEW OPPOSITE HAND)



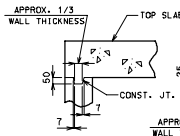
SECTION A-A



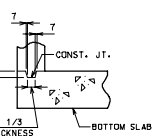
SECTION B-B



SECTION C-C



SECTION D-D



DETAIL OF KEYED CONST. JT.

GENERAL NOTES:

GENERAL NOTES:
DESIGN UNIT STRESSES:
CLASS B-1 CONCRETE, $f'_c = 28 \text{ MPa}$
REINFORCING STEEL (GRADE 420), $f_y = 420 \text{ MPa}$

ALL DIMENSIONS SHOWN ARE IN mm UNLESS OTHERWISE NOTED.

FOR DIMENSIONS AND SIZE AND SPACING OF REINFORCING STEEL, SEE
STANDARD SHEET M703.85.

LAP ALL LONGITUDINAL BARS A MINIMUM OF 610 mm AT SPLICES.

MINIMUM CLEARANCE TO REINFORCING STEEL SHALL BE 40 mm UNLESS OTHERWISE SHOWN.

PREFORMED FIBER EXPANSION JOINT MATERIAL SHALL BE SECURELY STITCHED TO ONE FACE OF THE CONCRETE WITH 3.5 mm DIA. (10 GAGE) COPPER WIRE OR 2.8 mm DIA. (12 GAGE) SOFT DRAWN GALVANIZED STEEL WIRE.

BEVELED HEADWALL TO BE LOCATED AT UPSTREAM END.

A FILTER CLOTH 1 METER IN WIDTH AND DOUBLE THICKNESS SHALL BE APPLIED TO ALL TRANSVERSE JOINTS IN THE TOP SLAB SIDEWALLS. THE MATERIAL SHALL BE CENTERED ON THE JOINT AND THE EDGES SEALED WITH A MASTIC OR WITH TWO SIDED TAPE. THE FILTER CLOTH SHALL BE A GEOTEXTILE MEETING THE APPROVAL OF THE ENGINEER AND HAVING A TENSILE STRENGTH OF 800 N. (ASTM D-4632) AND AN APPARENT OPENING SIZE NOT EXCEEDING 150 MICRONS. THE PRICE OF SUPPLY, DELIVERY, FURNISHING AND INSTALLING THE FILTER CLOTH WILL BE CONSIDERED COMPLETELY COVERED BY THE CONTRACT UNIT PRICE FOR OTHER ITEMS.

FOR MORE DETAILS AND SECTION THROUGH BOX, SEE M703.84
SHEET 2 OF 2.

MISSOURI HIGHWAY AND TRANSPORTATION
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- 1) UPSTREAM = 1050 mm
DOWNSTREAM = 1200 mm
- 2) IF MORE THAN ONE TRANSVERSE JOINT IS REQUIRED,
SEE STANDARD SHEET W703.82 FOR DETAILS.
- 3) NUMBER OF HZ BARS VARIES WITH SKEW.
- 4) D2 BAR LENGTH EACH SIDE OF 6 WALLS = 48 BAR
DIAMETERS OR 4 CLEAR SPAN (USE GREATER).
- 5) D4 BAR LENGTH EACH SIDE OF 6 WALLS = 48 BAR
DIAMETERS OR 2 CLEAR SPAN (USE GREATER).
- 6) FOR DETAILS AND REINFORCEMENT IN WINGS, SEE
STANDARD SHEET W703.37.
- 7) USE THESE BARS FOR DESIGN FILLS OF MORE THAN
610 mm.
- 8) USE THESE BARS FOR DESIGN FILLS OF 610 mm OR LESS.

(米) #25 (3 m < $\frac{\text{CLEAR SPAN}}{\text{CONCRETE DECK}} \leq 4 \text{ m}$)

OTHERWISE D2 AND D4 BARS SHALL NOT BE USED

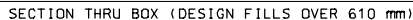
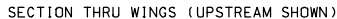
(**) VARIES - 300 m MAXIMUM

***) USE TRANSVERSE JOINT WHEN BARREL IS OVER 25 METERS LONG BETWEEN HEADWALLS MEASURED ALONG & OF BOX.

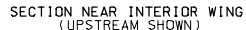
USE ADDITIONAL TRANSVERSE JOINTS TO PROVIDE 15 METERS
MAXIMUM SPACING BETWEEN JOINTS.

(****) J4 BAR SPACING

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION			
		CONCRETE TRIPLE BOX STRUCTURE FLARED WINGS (SKEWED)	
DATE: _____	EFFECTIVE: 07-01-2004	M703.84F	1 2



NOTE: CONSTRUCTION JOINT
KEY OMITTED FOR CLARITY.



① FOR DETAILS OF REINFORCEMENT IN WINGS, SEE STANDARD SHEET M703.37.

MISSOURI HIGHWAY AND TRANSPORTATION COMMISSION			
		CONCRETE TRIPLE BOX STRUCTURE FLARED WINGS (SKEWED)	
DATE: _____	EFFECTIVE: 07-01-2004	M703.84F	2 2